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CONTENTS **Page**

ARIZONA'S SALT RIVER ASBESTOS 2
CANADIAN SPECIFICATIONS 10
THE ANOMALY OF SLIP-FIBRE 12
J-M PUBLISHES NEW BULLETIN 22
MARKET CONDITIONS 24
BUILDING 28
AUTOMOBILE SALES 29
THE CELLULO COMPANY CELEBRATES ITS 35th YEAR 30
Production Statistics 32
Imports and Exports 34
NEWS OF THE INDUSTRY 40
Wage Rates for Pipe Coverers 44
Asbestos Stock Quotations 50
Current Range of Price 51
ST. LAWRENCE POWER CEREMONIES 54
Book List 56

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ARIZONA'S SALT RIVER ASBESTOS

By Jay Ellis Ransom

Recently, while traveling over U. S. Highway 60 northeast of Globe, Arizona, and almost in the heart of the Grand Canyon State, I visited several famous chrysotile asbestos mines. Above the famed Salt River canyon, in some of Arizona's wildest and most inhospitable country, Apache Indians have been mining the long-fibered raw material of brake linings, clutch facings, and fire-proof clothing for more than 40 years.

Thirty-five miles northeast of Globe, one comes to the Apache Rest Cafe and service station. On the rolling 5,000 foot high plateau, this solitary outpost of civilization lies among soughing yellow pines, oak and juniper. Storm clouds darken distant mesas, capped with remnants of ancient lava flows. This great central Arizona plateau consists of nearly horizontal strata, mostly Mescal limestone intruded by thick sills of diabase. The Salt River and its tributaries have deeply dissected the plateau, down to 3,000 feet in places, lacing the land with steep-sided canyons which reveal more than 2,000 feet of limestone, Troy sandstone, serpentine, diabase, and Dripping Springs quartzite. Over the surface of the uplands limestone predominates.

Exposed on the sides of the canyons are four distinct sills of diabase and three divisions of Mescal limestone, the latter weathering on the surface to a chalky texture. It is here that some of this nation's finest chrysotile asbestos occurs.

Chrysotile asbestos is usually associated with massive serpentine, which has the same chemical composition as the fibrous material—termed by the old time prospectors "cotton rock"—but differing in physical properties. The serpentine found in dolomitic limestone is easily scratched with a knife although a finger nail cannot mar it. Excessively fine-grained and unusually dense, this Arizona serpentine has gem qualities of translucence and hardness, in greens, yellows, browns, and whites that make it ideal for sawing and polishing into bookends, ash trays, and other items of interest mainly to rock collectors.

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Many well-known asbestos mines have been carved into the great cliffs above the Salt River gorge. Among them are the Regelman group, the D. W. Jacquays, and the Phillips Mine. Decades before the Salt River was dammed to make Roosevelt Lake as a source of irrigation water for Phoenix and the surrounding desert, travelers coming up the Salt River canyon noted and marveled at the serpentine float and the long shining fibres of asbestos found on the sandbars of the river. Mining-minded gentry, disappointed in their search for gold, silver, and copper, began tracing the green float back into sheer-sided canyons, working up almost impassable talus slopes until finally they located outcroppings of commercial quality asbestos. Such a prospector was a German, E. Schaaf-Regelman, who located pure chrysotile asbestos in serpentine in 1914. It was not until 1919 that he managed to open a road through one of the most perpendicularly topographic areas of Arizona to his claim and could start mining it. This now abandoned mine is located high on the south side of the Salt River canyon, south of the salt banks and mainly on the east face of Corral Creek. In 1928, Mr. Regelman had 150 men—mostly Mexican laborers—producing asbestos ore.

For many years the Regelman group of mines produced top quality asbestos. During the latter part of the 1920's, raw ore shoveled into trucks and hauled out to the processing plant in Globe brought as high as $3,000 a ton. Today, the adjacent D. W. Jacquays mine hauls similar ore, but the price is considerably lower. This mine, just west of Regelman's original outcrop, is currently being operated by 16 Apache Indian miners and a half dozen white men.

All the producing asbestos mines are located in the Mescal limestone, 15 feet above diabase which is the controlling mineralizer. The constant association of asbestos and limestone near its contact with diabase suggests that serpentine and asbestos—both secondary minerals—result from hydrothermal metamorphic action of the intruding diabase upon the limestone. Since asbestos is most abundant in fissured limestone, heated waters of the diabase sills may have penetrated the limestone and convert-

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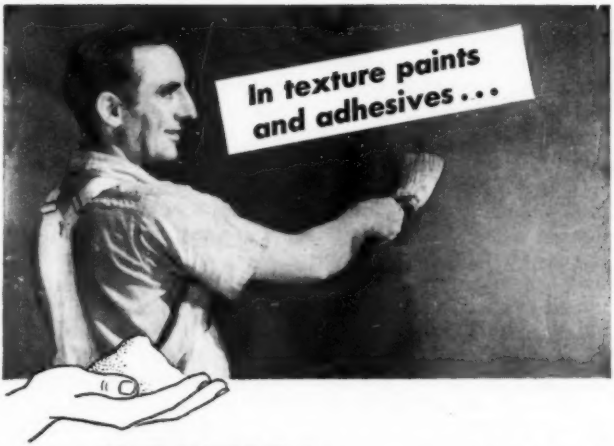
ed it into serpentine and thence into chrysotile asbestos. Of interest is the fact that these hot waters were rising, which accounts for layers of asbestos above the diabase. The mineralogy by which hard magnesium silicates are altered into soft silky-fibered asbestos of the same basic composition is not entirely known.

In the nearby Fort Apache and San Carlos Indian Reservation, asbestos occurs in rocks associated with the Apache group, principally represented by the Dripping Springs quartzite, the Mescal limestone, and the Troy sandstone. These formations are everywhere intruded by sills of diabase. The asbestos usually occurs above the line of contact, though not always. Serpentine is invariably associated, and in this mineral asbestos occurs as cross-fibre veins parallel to the bedding of the limestone. It is evident that the asbestos veins were deposited by replacement of serpentine in the planes of weakness somewhat geologically later than the development of the serpentine itself. All asbestos found in these deposits is top quality, and D. W. Jacquays is mining to as small as 2-inch fibres, with some running 3 and 4 inches. If one were to stand on the cliff face where the Regelman road clings like an ivy tendril to a stone wall, he could count fifteen distinct seams of diabase outcropping the 2000-foot stairstepped cliff faces. Only a relatively small proportion of the available asbestos ore has so far been mined.

The asbestos areas lie flat or dip at a low angle, having a heavy overburden of limestone. Mining is entirely by the underground method, and most Arizona mines practice hand-cobbing. A modified room and pillar method is used with adit tunnels being run in on a promising outcrop while ore is removed by lateral stoping. Little timbering is required and the inside of the mines is powder dry. The D. W. Jacquays mine has approximately 1,200 feet of tunnel penerating the cliff faces.

In any discussion of the central Arizona asbestos area, it is pertinent to include the Metate Asbestos Mines Company and its well-known Apache Mine 16 miles from the center of Globe on the San Carlos Apache Reservation. According to Jack L. Neal, owner and operator of the Apache Mine and mill, this property and the D. W. Jac-



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quays Mining Corporation represent the two largest producers of crude asbestos in central Arizona. It is Mr. Neal's considered opinion that the Apache Mine holds promise of becoming one of the largest producers in the district in time.

Three years have been spent in developing a large ore body of very soft chrysotile fibre, (mentioned in the October 1953, issue of "ASBESTOS"). According to Mr. Neal, a considerable tonnage has been blocked out in the Number I tunnel while getting under way at the Number III tunnel. Current production figures are not available, but 30 men, mostly Apache Indians, are employed in the expanded operations. He further plans to get Number IV tunnel under development in the near future, and also the Chiricahua lease which is south of the San Carlos, eight miles from the junction of U. S. Highway 70.

Most of the working mines overlooking the Salt River canyon or its tributaries are currently being expanded somewhat. In years past, the nation's largest asbestos operations were located about six miles south at the now abandoned camp of Chrysotile on Ash Creek, still shown on many highway maps. Here, after World War I, some 500 Apache miners and their families comprised a sizeable town containing a school, churches, various stores, and a post office. Little remains of the town now, and few visit it except rock collectors in search of gem quality serpentine or jade minerals which, so far, have not been picked up in any quantity.

Visitors hoping to reach the Jacquays and Regelman mines 9.2 miles west from U. S. Highway 60 should be warned in advance that this road is not for inexperienced mountain drivers. The Phillips Mine lies about four miles in from the pavement, and here a fair-sized Apache Indian community stands at the base of an overhanging mesa. The mine itself overlooks the town, clinging to an outcrop just below the mesa rim, its talus dump sloping steeply down to the edge of the forest and the town. Nearly 5½ miles farther west is the end of the road, and the last three miles are hair-raising, to say the least.

Most of the way in from the highway, the single lane dirt track catwalks the face of sheer cliffs. Hardly a

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hand's breadth separates the outside wheels from the brink of thousand-foot drop-offs, and there are few turnouts. Twisting curves prevent the driver of a passenger car from seeing the road under his engine hood, so that he has to drive "by guess and by gosh" with only inches to spare. And that, like walking a tight rope across the Grand Canyon, is something out of a nightmare.

Visitors to these mines cannot help but be impressed by the grandeur of the scenery; the immense blood-red cliffs laced with pale green and whitish seams of diabase, and the vast distances over which one's eye travels to blue-black mesas. The latter might as well be on the moon as far as anyone's being able to reach them is concerned. Geologists and prospectors who are pushing exploration of the plateau for more asbestos, have a difficult time of it, for most of their work must, by necessity, be confined to the faces of enormous bluffs.

Once a commercial deposit has been located, the task of blasting out a roadway for ore trucks is, often enough, more difficult and hazardous than the actual mining of raw asbestos. Nevertheless, visitors are impressed by the thin tendrils of roadway lacing the giant cliffs and leading to distant corrugated iron buildings gleaming in the bright sunshine. It is truly a beautiful and fascinating land. As more mines are opened up, Arizona's chrysotile asbestos will continue to supply the nation's markets with top quality fibres.

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New specifications for Thermal Insulation have been issued as of May 1954 and a copy can be obtained from the Canadian Government Specifications Board, National Research Council, Ottawa, Canada, at 10¢ each.

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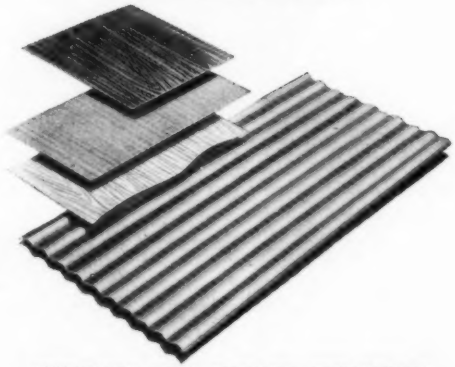

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THE ANOMALY OF SLIP-FIBRE

By W. E. Sinclair, M.I.M.M. (Consulting Mining Engineer)

Slip fibre occurrences are found in some form in most asbestos ore deposits, but mainly as haphazard local patches, although in some chrysotile deposits the fibre is disposed wholly in this form. In either case, slip-fibre structure is accepted generally as just another phenomenon that is characteristic of fibre deposition. But when large slip-fibre mines are forced to close down (as has happened recently in Rhodesia) the losses incurred create something more than scientific interest in the analogous behavior of fibre structure and particularly the peculiar form known as slip-fibre.

Occurring as it does in nearly all varieties of asbestos mainly as freak occurrences in otherwise normal cross-fibre or mass-fibre orebodies, it is generally found associated with faults or "slips" in the containing rock formation. The deposition of slip-fibre is therefore accepted as a purely mechanical development.

Non-the-less it is often averred that slip-fibre asbestos is inferior in quality to cross-fibre in the same ore-body. Because of this, the commercial value is considered to be lower than normal fibre, but in neither case has any definite evidence been produced to support such theories.

True slip-fibre structure is best illustrated by comparison with the more common and more regular cross-fibre structure, in which the fibre strands are found disposed at right angles to the walls of the crack in which they occur. By contrast, slip-fibres lie obliquely within the cracks along the vein direction. The initial development is clearly demonstrated in many instances where, as a result of pressure, the fibres have been caused to incline at an angle and finally find an extreme position in which they lie almost parallel between the walls of the containing "slips" or cracks. The fibres are often matted together irregularly in a position that is sometimes affected by slickensiding, a not uncommon feature that accompanies extreme slip-fibre structure.

The inherently high proportion of long fibres commonly found in slip-fibre occurrences has been said to be really illusory because of the matting and over-lapping of the fibres squeezed between the rock walls. This is not substantially

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correct, however, because in most cases, long fibre is actually recovered from "slip" occurrences, and in the initial or intermediary stages where fibres attain a sloping angle in folds in the strata, longer fibre growth is usually visually apparent.

Slip-fibre deposition is a natural characteristic of the fibre structure in tremolite and actinolite asbestos deposits. In the latter formation the fibre may be harsh and brittle, whereas tremolite fibres are usually long, soft and silky. Indeed it is assumed that slip-fibre tremolite asbestos was the first used for spinning purposes by the Romans in Northern Italy.

Anthophyllite fibre commonly occurs in mass-fibre form in which the fibre strands are predominantly arranged in a stellate structure. Irregular fibre arrangement in the typical amphibole ore often includes patches of slip-fibres in cracks in the formation in a form dissimilar to the usual slip-structure.

In amosite and crocidolite ore deposits, slip-fibre disposition is only found in regions of extreme rock pressure resulting in abnormal folding and faulting of the strata. The preliminary stage, on the other hand, where pressure has caused angling or sloping of the fibres away from the normal, is not an uncommon feature of this series of stratified rocks.

Amosite cross-fibre seams that have suffered pressure and tension in this manner clearly indicate the gradual change from cross-fibre disposition through intermediary angling to the extreme slip-fibre form. In the banded ironstone formation in the Northern Transvaal, amosite asbestos occurs regularly as cross-fibre, and it is only in those localities where the strata has been subjected to intense pressure and stress that such occurrences appear.

Crocidolite tabular deposits both in the Transvaal and the North West Cape appear to have suffered from the effects of rock pressure to a greater extent than the amosite bodies. As a result, intense folding of the strata and cross-fibre seams is more frequent and the direct and initial result is angling of the fibre strands, with longer fibres in the "local" "rolls" in most cases, but occasionally the fibres in the rolls are shorter depending on the direction of pressure.

In several crocidolite ore-bodies the fibres occupy a sloping angle, midway between a cross-fibre and slip-fibre disposition.

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A hand specimen from Geduld, near Prieska, indicates the typical regular slope of the fibre which is common thruout the whole deposit. The slope of the fibre averages from 10% to 15% relative to the walls of the seam which they occupy. The main seam varies in width from ¼" to ⅜" and the fibres recovered therefrom are actually ¾" to 1" in length.

Local slip-fibre occurrences are not uncommon, in disturbed and faulted zones, in otherwise normal cross-fibre crocidolite ore-bodies.

Chrysotile asbestos is most commonly found in cross-fibre form and in some deposits the fibre is disposed entirely in this form. In serpentinized lode ore-bodies in magnesium limestone formations, like those in Arizona, or in dolomite rocks as in South Africa, slip-fibre occurrences are rare. Indeed, in many normal cross-fibre deposits in serpentine, slip-fibre is an unusual occurrence and yet in others it is not uncommon and in some, otherwise normal cross-fibre ore-bodies, the prevalence of slip-fibre zones is marked.

The extent of such occurrences depends entirely on the pressure and structural movement to which the containing serpentines have been subjected. Just as "slip-serpentine" is developed and associated with slickensiding along fault planes, it is found that the otherwise normal fibre structure lies parallel within the closed up cracks in the rock. Close examination of such local examples indicates, not only the effect of pressure folding but slight faulting movement without excessive displacement of the rock. Each localized occurrence may be said to exist within the sphere of a small shear zone.

It is difficult to visualize this structure on a large scale, but chrysotile deposits in which the entire asbestos deposition consists of slip-fibre are fundamentally derived in similar manner. Gentle overall pressure and lateral movement of the sepentine rocks accounts for the conversion of the original cross-fibre to slip-form. This assumes the accepted theory of fibre growth which postulates the vigorous fibrous growth and the pressing apart of the walls to assume the cross-fibre form as the original development.

The mechanical structural change that is assumed in the altered fibre disposition might account for the accepted idea of the inferiority of slip as compared with cross-fibres, because of weakness created in the slickensiding effects. Harshness is

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sometimes a characteristic, but more often slip-fibre is remarkable for its soft and silky texture and in many instances the fibres possess high tensile strength that compares favorably with cross-fibre chrysotile.

Entire slip-fibre ore-bodies in serpentine occur widely in certain areas of Southern Rhodesia.

It is the recent closing of several of the slip-fibre mines in these areas that has led to interest and speculation as to the qualities of this form of fibre deposition relative to the future economy of the "slip" asbestos field.

The principal slip-fibre ore deposits lie in the hills that extend south-east of Shabani, in what are known as the Vukwe Range. Similar deposits, but of lesser extent, are found south west of Shabani, in the Belingwe area, and at scattered points beyond from Gwanda down to the neighborhood of the Antelope Mine.

In the main "slip" area in the Vukwe Range, most of the deposits occur as somewhat narrow serpentine bodies, plutonic in origin, and geologically disposed between granite, on the eastern limits and banded ironstones and schists on the other.

The chrysotile asbestos in these deposits, occurring entirely as slip-fibre, is generally of good quality, with a large proportion of long fibres of high tensile strength and soft and silky in texture.

The principal mining developments on this Range include the Vukwe, the Kloof, the Biltong, the Malcolm, and the slip mines. The last-named proposition is but one that has recently ceased operations in this area.

In the south-western Belingwe-Gwanda region, the fibre-bearing deposits generally assume a lenticular form in rather narrow and irregular mineralized ore-bodies. The asbestos in most of these deposits is wholly slip-fibre in form, although there are instances where both cross and slip-fibre deposition is existent.

The principal mining developments in the Belingwe field include the Peak, the Bend, Gillian, Whites, the Vanguard and Gurumba-Tumba. The latter has recently closed down.

In the Gwanda area, the Alpha Mine of the Pamco Company has also ceased production and other smaller propositions have temporarily curtailed operations, while in the Lower

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Gwanda district, developing operations on the Ratanyana slip-fibre undertaking have been given up.

Slip-fibre disclosures on the old Antelope Gold Mine in this area, indicated several scattered lenticular bodies in which the slip-fibre on test proved to be of better quality than the cross-fibre that occurs in this serpentine formation.

In general, however, it is found that the quality of the fibre in the south-western area does not compare favorably with that in the Vukwe field.

The set-back experienced by the "slip" mines in Rhodesia, has created a state of uncertainty in the future of slip-fibre, due, it is suggested, to the possibility of some commercial handicap. This, it is suggested, could only be accounted for by first, poor quality of the fibre, and this may be due to physical weakness or to the unsuitability of its chemical composition. Alternatively, marketing may be restricted because of lack of standardized grading and classification, due to unsatisfactory milling processes.

In the first case, in the question of quality, it has been shown that the physical qualities of slip-fibre vary and, like cross-fibre chrysotile, may be either good or bad. As a general rule, reports are contradictory. So far as the chemical composition goes, there seems to be a very close resemblance in the respective chemical qualities of slip and cross-fibre as is shown in the accompanying table. In this the comparable analyses of slip-fibre specimens from various Rhodesian "slip" mines and an average of cross-fibre results from other Rhodesian Mines is shown.

The essential commercial value of slip as against cross-fibre could best be decided by the manufacturer who, it is possible, might find a special use for slip-fibre for the manufacture of specialized products.

From the aspect of the producer, the most serious difficulty of slip-fibre deposition in ore-deposits is the complete inability to assess accurately the quantity and fibre lengths of the asbestos contained in the deposit. This may indirectly affect the matter of milling, but after adequate tests, there should be no difficulty in specialized treatment of the ore to recover the fibre effectively and economically.

Special milling technique has been evolved to treat these ores and after extraction the treatment of the fibre to produce standard grades follows common practice.

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	Cross-Fibre	*Slip-Fibre*			
	Average	1.	2.	3.	4.
SiO_2	37.58	17.94	38.49	38.50	38.23
Al_2O_3	1.50	0.50	1.32	1.48	3.49
Fe_2O_3	0.45	1.20	3.29	3.35	6.53
FeO	1.92	0.75	0.56	1.03	1.54
MgO	41.81	55.54	37.80	39.61	37.33
CaO	0.58	Nil	1.41	Nil	Nil
H_2O+	14.59	16.56	11.20	13.78	12.30
H_2O-	1.43	1.02	0.70	1.11	1.10
CO_2	0.06	6.14	4.54	1.37	0.08
SO_3	Tr.	Nil	Nil	Nil	n.d.
MnO	Tr.	0.26	0.49	0.14	0.03
Sp. Gr.	2.20	2.02	2.01	2.08	—

REFERENCE

Average cross-fibre analyses is typical of normal chrysotile asbestos recovered from the following mines: Shabani, Gaths, Victoria and Ethel.

1. Long white, good quality slip-fibre (9″) from Biltong Mine, Vukwe Mts.
2. Commercial quality slip-fibre from slickenside in the same mine.
3. Commercial quality slip-fibre from the Slip Mine, Vukwe Mts.
4. Commercial slip-fibre with some brittle strands, Belingwe Dist. Anal.—E. Golding.

J-M PUBLISHES NEW BULLETIN

"How Flange Surface Finishes Affect Gasket Sealability and Joint Performance" is the latest in a series of illustrated technical bulletins being issued by Johns-Manville. These are printed in booklet form and the collective title of the series is "The Gasket."

The most recent bulletin discusses the effect of flange surface finishes upon the performance of a gasket. For those who buy, specify or design joints in which gaskets are used, the bulletin should be a definite help. It provides a basis upon which to select the flange surface finish most suitable for a given gasket. It explains why the right finish makes it easy to achieve an initial seal and obtain the best joint performance in service.

Copies of "How Flange Surface Finishes Affect Gasket Sealability and Joint Performance" are available from Johns-Manville, 22 E. 40th Street, New York 16, N. Y.

SMITH & KANZLER CO.

Manufacturers of

ASBESTOS PAPER

Pipe Covering & Blocks

Air Cell

Wool Felt

Anti Sweat

Anti Freeze

Sponge Felt

Multi Ply

Established 1920

East Linden Ave., Linden, N.J.

MARKET CONDITIONS

GENERAL BUSINESS.

The general level of business activity, while showing no startling improvement over the past month, has remained quite steady. Feeling that the end of summer will see at least minor improvements in most lines is becoming more general. The building boom continues at a rapid pace although heavy construction has slowed down as compared to home building. The acceptance, by Studebaker employees, of a wage-cut is considered by many to be a good omen in that it indicates that labor costs are not completely inflexible and that union leaders and rank and file workers are well aware of the impracticality of maintaining, for long, wage scales which make it impossible for a company to compete on equal terms with others in its industry. It is to be hoped that other unions, faced with similar situations, will act in like fashion.

ASBESTOS—RAW MATERIAL

Asbestos fibre production and demand have changed little in recent months. All grades are in ample supply, even spinning fibre.

A seasonal pick up has taken place in some of the major uses of asbestos shorts and with navigation open, foreign shipments are running at the year's high.

In the over-all, total output is running slightly under the figures of 1953.

ASBESTOS—MANUFACTURED GOODS

Asbestos Textiles. A slight improvement is evident and there is some resumption of government buying. The outlook for the remainder of the year is only fair unless government requirements are stepped up considerably.

Asbestos Brake Lining. Sales are holding to the level of '53 and jobber inventories are down to a healthy level. Volume should hold to satisfactory level. Many inferior grades of materials are being sold in replacement market on bonded on linings and industry buyers are showing false economy in the purchase of such dangerous materials.

Asbestos Paper. At the present time the demand for asbestos paper is very slow and those orders which are available are sold at very competitive prices. Orders for *Millboard* are not as plentiful as they have been. There does not seem to be

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NICOLET ASBESTOS MINES LIMITED INC.*

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New York 5, New York

**One of the NICOLET Industries*

the volume of millboard in the future that was apparent during the first half of 1954. Industrial construction still remains below 1953's level for *Saturated Paper*. However, there still remains a considerable emphasis on maintenance and repair work with requirements for Asbestos Felt below production capacity.

Insulation. High Pressure. There is a large backlog of business at the moment, but the backlog of the heavy construction industry is at a low ebb. Unless there is a sudden change this will result in a falling off in high pressure potential next year. The outlook for the balance of the year appears fair to good as many sizable projects are calling for quotations.

Insulation. Low Pressure. The low pressure business seems to be gathering some momentum as a number of large projects become ready for insulation. It is expected that business will increase during the last quarter, enabling sales to equal those of the same period last year.

Asbestos Cement Products. This market is fairly strong, although slightly below normal for this time of year. Sales will be down for the year.

August order placements for roofing and siding are considerably greater than for the month of July. The market continues strong with a slight falling off in some sections.

Construction seems to be picking up and the demand for Corrugated, while still below production capacity, is gaining in volume.

The strong market for Pressure and Sewer Pipe continues. Sales of Gas Vent, Plumbing Vent and Building Sewer Pipes, Warm Air Duct and Electrical Conduits remains steady.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

ASBESTOS FOR SALE

Grades 1, 2, & 3 Crude, also
Grades 4, 5 & 6

Original Canadian Chrysotile, in original mine bags. Priced below mine list.

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Los Angeles 22, California

Distributors and Contractors of Industrial Insulations for All Temperatures and Services from Sub-Zero to 3000° F.

SERVING THE SOUTHWEST

BUILDING

Construction activity in the months ahead will continue at high levels, it became clear today when F. W. Dodge Corporation announced its July and seven-month totals of Dodge Reports of contracts for future construction.

The July total of $1,836,935,000 of contracts in the 37 states east of the Rockies set a new July high in Dodge's long history in construction news and marketing; up 2 per cent over July 1953 and 6 per cent above June of 1954.

Also, an all-time new high for the first seven months of any year was broken with a total of $11,088,084,000, up 14 per cent above the first seven months of 1953, and also above the previous seven-month high set in 1951 which included $980 millions in Atomic Energy Commission projects alone.

Dodge pointed out that the monthly average total for the first seven months was $1,584,000,000, and that the final five months need average only $1,271,000,000 to tie last year's all-time 12-month high. The contracts that Dodge reports this summer indicate that families living on construction income likely will be pouring out enormous amounts of money into the stores for Christmas purchases in December.

Seven-month categories compared with the same period 1953 were: nonresidential, $4,049,522,000, up 9 per cent; residential, $4,726,131,000, up 21 per cent; heavy engineering, $2,312,431,000, up 12 per cent.

July categories were: nonresidential, $641,513,000, down 2 per cent from June and 16 per cent below July 1953; residential, $715,440,000, up to 3 per cent over June and 14 per cent above July 1953; heavy engineering, $449,982,000, up 26 per cent over June and 20 per cent above July 1953.

WILHELM BURGDORF
Importer of Raw Asbestos
P. O. Box 1131, BREMEN, GERMANY

AUTOMOBILE SALES

	July 1954
Passenger Cars	451,663
Motor Trucks	78,507
Motor Coaches	246
	530,416

In July 1953, a total of 702,899 motor vehicles were sold. In the seven months of 1954 the total was 4,067,905.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

SELLING OPPORTUNITY OFFERED

Salesman wanted by manufacturer of Asbestos Products. Territories available outside metropolitan New York. Give full details, and territory covered. Address Box 9A-NJ. "ASBESTOS", 807 Western Saving Fund Bldg., Philadelphia 7, Pa.

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ASBESTOS - ORES - MINERALS

THE CELLULO COMPANY CELEBRATES ITS 35th YEAR

The Cellulo Company, Sandusky, Ohio, manufacturers of Disc, Pulp and Filteraid Filters, Filter Papers, Asbestos Pads, Filtermass and Loose Fiber Filtering Asbestos.

The company was founded in 1919 by Rudolph F. Knauer (now President of the Company) and Lester Milkey. Mr. Milkey, a pilot, was killed in a plane crash in South America during World War II.

Cellulo is perhaps the only firm in the country producing Acid Washed Filtration Asbestos on a commercial scale. The merits of this material are rapidly becoming evident as filtration processes become more critical and those who filter learn the effect upon their products of the leachable elements in ordinary filtering materials and in non-acid washed asbestos. Both the alcoholic and non-alcoholic beverage industries find particular merit in Cellu-Flo Asbestos Filter Pads and Loose Fibre Asbestos Filtering Material as do the pharmaceutical and food products industries.

Located in the heart of Mid-America's famous wine-producing center, Cellulo's first experience was to serve the hundreds of wineries located only a few miles from the factory. The success of the Cellulo products soon brought them to the attention of many other industries. Now Cellulo filters are used in cosmetics, extracts, drugs, pharmaceuticals, paints, oils, waxes, industrial chemicals, vinegar, cider, alcoholic beverages, soft drinks, water and food processing.

What makes the Cellulo Company's position unique is that it operates with what is reputed to be the world's smallest commercial paper machine. This dynamic midget of 16 feet over-all produces a sheet 13 inches wide and runs at a speed of 96 inches per minute and has been in continuous productive service since 1919.

Besides hand made papers the Cellulo Company makes a special type of asbestos filter pad called CARBAC to signify the inclusion of activated carbon. CARBAC pads are particularly designed for preparation of beverage waters.

At the present time they are more than doubling their filter pad manufacturing facilities and are adding 50% to their floor space for the increased facilities for processing the asbestos.

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of

AMOSITE ASBESTOS

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(Mines centered at Penge, Northern Transvaal)

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Amosite is a versatile fiber, ideal for rapid water release in wet-process filtration . . . as a reinforcement for asbestos-cement products, plastics, and rigid insulations . . . as an insulating medium. Relatively great fiber length and bulking give Amosite unique characteristics. For further information, contact the following Cape Asbestos Co. subsidiaries:

•

In the United States

NORTH AMERICAN ASBESTOS CORPORATION

Board of Trade Building, Chicago 4, Illinois

In Canada

CAPE ASBESTOS (Canada) Ltd.

200 Bloor Street East, Toronto, Ontario

PRODUCTION STATISTICS

Canada
(Department of Mines, Province of Quebec)

Tons 2000 lbs.

Production for June 1954 ..... 76,718 tons
Compared with June 1953 ..... 80,130 tons

Dominion Production for June 1954 is 78,960 tons, a difference of 2,242 tons, from the Quebec figure.

Africa (Rhodesia)
(Published by Rhodesia Chamber of Mines)

Tons 2000 lbs.

Production for April 1954 ..... 7,206.39 tons
Valued at £536,725
Production for April 1953 ..... 8,068.97 tons
Valued at £644,890

Union of South Africa
(Quarterly Information Report — Dept. of Mines)

Tons 2000 lbs.

1st Quarter (Jan., Feb. & Mar. 1954)

	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	10,412	2,061	£49,673	7,971	£342,567
Anthophyllite	...	...	...	...	...
Chrysotile	6,540	204	8,579	2,832	179,328
Cape Blue	6,097	151	9,997	3,922	287,342
Transvaal Blue	3,815	42	2,263	2,580	169,940
	26,864	2,458	£70,512	17,305	£979,177

PIPE COVERING PROTECTORS

The "Royal" All Aluminum Adjustable and Permanent Protector for Pipe Covering-ends. Easy to Apply . . . Prompt Shipment.

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South African and Rhodesian

Asbestos Fibres

ENQUIRIES WELCOME

Imports into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries

From Canada	45,287
Southern Rhodesia	1,104
Union of South Africa	3,382
Australia	356
So. B. Africa	193
Other Countries	22
	50,344
Valued at	$4,046,544

By Grades:

Crude No. 1, Chrysotile, So. Rhodesia	18
Crude, No. 1, Chrysotile, Other Countries	5
Crude, No. 2, Chrysotile, Canada	22
Crude, No. 2, Chrysotile, So. Rhodesia	45
Crude, Other, Chrysotile, So. Rhodesia	987
Crude, Other, Chrysotile, So. B. Africa	193
Crude, Blue, Australia	267
Crude, Blue, Union of S. Africa	1,430
Crude, Amosite, Union of S. Africa	1,855
Textile Fibres, Chrysotile, Canada	1,053
Textile Fibres, Chrysotile, Australia	89
Textile Fibres, Chrysotile, Union of S. Africa	97
Shingle Fibres, Chrysotile, Canada	4,660
Paper Fibres, Chrysotile, Canada	4,180
Other Fibres, Chrysotile, Canada	35,372
Other Fibres, Chrysotile, So. Rhodesia	54
Other Fibres, Chrysotile, Other Countries	17
	50,344

Manufactured Asbestos Goods:

	April 1954 Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	51,388	$37,497
Asbestos Packing & Lining	8,765	2,944
Asbestos Shingles, (Impreg.)	6,080	873
Asbestos Manufactures—Others	. . .	4,575
	66,233	$45,889

ASBESTOS FIBRE

OF ALL TYPES

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(Private Branch Exchange)	London

Exports from U. S. A.
(Figures by Bureau of Census)

	May 1954 Tons (2240 lbs.)	Value
Unmanufactured Asbestos:		
To: Canada	16	$ 2,500
Europe	81	19,919
C. America & Mexico	20	6,000
	117	$28,419

Manufactured Asbestos Goods:	May 1954 Quantity	Value
Asbestos Pipe Covg. & Cement . . Lbs.	215,303	$ 30,235
Asbestos Textiles & Yarn . . . . . Lbs.	135,263	141,003
Asbestos Packing . . . . . Lbs.	103,550	136,849
Asbestos Clutch Facings & Lining No.	112,153	87,220
Asbestos Bk. Lng. (Mld.&S.Mld) Ft.	248,024	89,281
Asbestos Bk. Lng. (Woven) . . Lin. Ft.	32,227	24,061
Asbestos Brake Lining Sets . . . . Lbs.	407,722	420,567
Asbestos Construction Materials Lbs.	2,119,719	182,958
Asbestos Manufactures—Others		24,403
		$1,136,577

April 1954
Tons (2240 lbs.)

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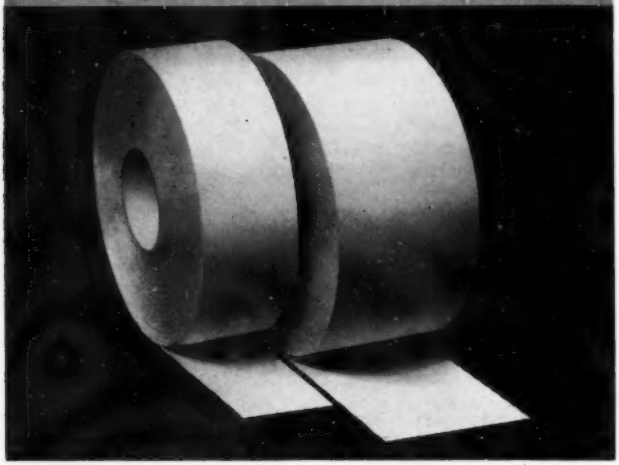

Continued product development and aggressive merchandising are two of the factors which contribute importantly to the ever-increasing acceptance of our wide line of asbestos products.

SALL MOUNTAIN COMPANY

HAMILTON, OHIO

Exports from Canada

(Published by Dominion Bureau of Statistics)

	June 1954	
Unmanufactured Asbestos:	Tons (2000 lbs.)	Value
Crude		
United States	18	$ 14,112
United Kingdom	25	25,875
South America	..	..
Central America & Mexico	..	..
European Countries	39	35,341
Other Countries	..	..
	82	$ 75,328
Milled		
United States	11,760	$1,896,812
United Kingdom	2,429	551,593
South America	2,460	461,898
Central America & Mexico	40	4,654
European Countries	6,159	1,160,425
Other Countries	3,702	595,628
	26,550	$4,671,019
Shorts		
United States	46,401	$2,245,784
United Kingdom	3,610	139,286
South America	156	12,236
Central America & Mexico	60	4,620
European Countries	4,137	294,578
Other Countries	940	76,477
	55,304	$2,772,981
Grand Total—Unmanufactured Asbestos	81,936	$7,519,328
Manufactured Asbestos Goods:		
Brake Lining		$ 18,153
Packing		..
Other Materials		27,868
		$ 46,021

SITUATION WANTED

Experienced estimator and salesman of piping insulation desires position in Central West or Northwest with independent insulation contractor. Address Box No. 9L-6, "ASBESTOS", 807 Western Saving Fund Bldg., Philadelphia 7, Pa.

Announcement

Effective 1 July 1954 the ASBESTOS Department of FIBRE-TEX AGENCIES, Johannesburg, has been placed in

C. J. PETROW & COMPANY (PTY) LTD.

C. J. Petrow & Company will specialize exclusively in raw ASBESTOS. Both Companies will remain closely affiliated and will occupy joint offices.

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NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

Charles Robert Neal, President, Metate Asbestos Corporation, Globe, Arizona, September 18.

W. N. Bolster, President & Treasurer, General Insulation Co., Cambridge, Mass., September 20.

W. C. Dodge, Jr., Advertising Manager, Keasbey & Mattison Co., Ambler, Pa., September 21.

J. C. Rector, Sales Manager, Insulation Division, The Philip Carey Mfg. Co., Cincinnati, Ohio, September 24.

Win Brown, Vice President, MacArthur Co., St. Paul, Minn., September 25.

C. Stanley Morgan, Detroit, Michigan, September 25.

R. H. Temple, Secretary-Treasurer, Thermoid Company, Trenton, N. J., September 25.

E. R. Teubner, Jr., President & Treasurer, Philadelphia Asbestos Co., Phila., September 26.

O. H. Cilley, Vice President, U. S. Asbestos Division, Raybestos-Manhatten, Inc., Manheim, Pa., September 27.

Harold R. Berlin, Vice President, Johns-Manville Sales Corporation, New York City, September 28.

W. H. Fehrs, Vice President, Union Asbestos & Rubber Co., Cicero, Ill., September 28.

J. M. High, Sales Manager, Insulation Division, Mundet Cork Corp., North Bergen, N. J., September 28.

William B. Brown, Partner, The Insulation Co., Hartford, Conn., September 29.

Walter L. Odenkirk, Treasurer, Asbestos & Magnesia Materials, Chicago, Ill., September 30.

Frank L. Sowka, Treasurer, Standard Asbestos Mfg. Co., Chicago, Ill., October 1.

George Courtauld, Director, The Cape Asbestos Co., Ltd., London, England, October 2.

W. W. Dunkin, Treasurer, Southern Friction Materials Co., Charlotte, N. C., October 5.

C. L. Moorman, Vice President, Union Asbestos & Rubber Co., Chicago, Ill., October 6.

Harry E. Smith, Vice President, Raybestos-Manhattan, Inc., Passaic, N. J., October 8.

Russell E. Crawford, Secretary, Ehret Magnesia Mfg. Co., Valley Forge, Pa., October 9.

John H. Victor, Chairman of Board, Victor Mfg. & Gasket Co., Chicago, Ill., October 9.

A. L. Penhale, President & Managing Director, Asbestos Corporation Limited, Thetford Mines, Canada, October 11.

H. R. Barrett, Vice President & Controller, The Philip Carey Mfg. Co., Cincinnati, Ohio, October 13.

W. W. F. Shepherd, Chairman of Board, Keasbey & Mattison Co., Ambler, Pa., October 13.

ASBESTOS FIBRES

Rhodesian Chrysotile — South African Chrysotile — Cape Blue — Transvaal Blue — Montasite — Amosite — Anthophyllite

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Milled Fibres

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Members: JOHANNESBURG CHAMBER OF COMMERCE.
SOUTH AFRICAN ASBESTOS EXPORTERS' ASSOCIATION.
ASBESTOS & BASE MINERAL ASSOCIATION OF SOUTHERN AFRICA.

W. M. Paxton, Sales Mgr. Packing Dept., Raybestos Division, Raybestos-Manhattan, Inc., Bridgeport, Conn., October 14.
Thomas D. Stone, President, Stone Industrial Equipment Co., Springfield, Mass., October 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

NEW APPOINTMENT — A. P. Keasbey

Aertsen P. Keasbey, President of the Robert A. Keasbey Company, has been appointed a member of the Advisory Board of the 14th Street Office of Manufacturers Trust Company.

Mr. Keasbey is the President and a Director of Parry Realty Company; also a member of the Executive Committee and Board of Governors of the Building Trades Employers Association of New York City; Chairman of the Executive Committee, Asbestos Contractors Association of New York; Chairman of the Joint Trade Board and Welfare Funds of the Asbestos Workers, Local 12, New York; Chairman of the Corporation Committee of the Cornell University Council, and Panel Member of the American Arbitration Association.

UNION ASBESTOS & RUBBER COMPANY

Semi-Annual Report

The Union Asbestos & Rubber Company reported a net profit for the first six months of 1954 of $291,119 as against $147,576 for the same period in 1953.

Earnings per share, omitting the non-recurring profit, for the first six months of this year amounted to 61 cents compared to 31 cents for the same period of last year.

The total net profit for the six months, including the non-recurring items, amounted to $504,736. Net sales for the first six months of 1954 were $7,382,053 compared with $5,753,327 for the first six months of 1953.

NATIONAL CONVENTION OF INSULATING CONTRACTORS

The INDEPENDENT INSULATING CONTRACTORS NATIONAL ASSOCIATION, INC., will hold its first Convention in Washington, D. C., September 20, 21 and 22, 1954. Headquarters for the Convention are in the Hotel Washington, and a good attendance is anticipated. Interest in the National Association is growing steadily, but an incomplete mailing list has prevented the officers reaching all independent contractors. However, everyone interested in becoming part of the National Association should communicate with the INDEPENDENT INSULATING CONTRACTORS NATIONAL ASSOCIATION, INC., Shoreham Building, Washington 5, D. C. — and all are invited to the Convention where problems and subjects of nation-wide importance will be discussed and plans formulated for promoting the industry on a national basis with speakers of outstanding ability who will lead the discussions.

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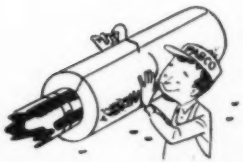

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PABCO PRODUCTS INC.

INSULATION DIVISION

San Francisco 19 New York 16

Manufacturers of Heat Insulation since 1920

WAGE RATES FOR PIPE COVERERS

The wage rates being paid Asbestos Workers (pipe coverers) in the principal cities and insulation centers of the United States are given in the tabulation below. Comparison with the list in August 1953 "ASBESTOS" (page 48) will show the changes during the year.

These rates are taken from the July 1954 issue of The Asbestos Worker (Official Quarterly Journal of The International Association of Heat and Frost Insulators and Asbestos Workers) and are believed to be up to date (as of July 1954) and authentic.

Akron, Ohio	$3.02½
Albany, N. Y.	2.79
+7½c W.F.	
Albuquerque, N. M.	3.00
+7½c W.F.	
Allentown, Pa.	2.80
+7½c W.F.	
Amarillo, Texas	2.90
Anchorage, Alaska	3.92½
+7½c W.F.	
Appleton, Wis.	2.50
+7c W.F.	
Atlanta, Ga.	2.80
+7½c W.F.	
Atlantic City, N. J.	3.35
+10c W.F.	
Austin, Texas	2.90
+7½c W.F.	
Baltimore, Md.	3.02½
+10c W.F.	
Baton Rouge, La.	3.00
+7½c W.F.	
Beaumont, Texas	3.06¼
+7½c W.F.	
Billings, Mont.	2.70
+7½c W.F.	
Birmingham, Ala.	2.90
+7½c W.F.	
Boise, Idaho	2.60
Borger, Texas	2.90
Boston Naval Shipyard	2.10
Boston, Mass.	3.00
+9c W.F.	
Bremerton, Puget Sound Navy Yard	2.25
Buffalo, N. Y.	2.97½
+7½c W.F.	
Cedar Rapids, Iowa	3.00
Charleston, S. C. Navy Yard	2.04
Charleston, S. C. Except Navy Yard	$2.87½
Charleston, W. Va.	3.00
+7½c W.F.	
Charlotte, N. C.	2.83
Chicago, Ill.	3.20
+10½c W.F.	
Cincinnati, Ohio	3.02½
+7½c W.F.	
Cleveland, Ohio	3.15
Columbia, S. C.	2.75
Columbus, Ohio	3.09
+7½c W.F.	
Corpus Christie, Tex.	2.90
+7½c W.F.	
Connecticut	2.85
+7½c W.F.	
Dayton, Ohio	3.05
+7½c W.F.	
Dallas, Texas	3.00
+7½c W.F.	
Denver, Colo.	3.00
+10c W.F.	
Des Moines, Iowa	2.90
Detroit, Mich.	3.30
+10c W.F.	
Duluth, Minn.	2.67½
+7½c W.F.	
Eau Claire, Wis.	2.80

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+7½c W.F.	
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Fresno, Calif.	$3.15
+9c W.F.	
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+7½c W.F.	
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+10c W.F.	
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+7c W.F.	
Greenboro, N. C.	2.82½
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+7½c W.F.	
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+7½c W.F.	
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Jackson, Miss.	3.00
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Manitowoc, Wis.	$2.50
+7c W.F.	
Mare Island Naval Shipyard, Valejo, Calif.	2.30
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Oak Ridge, Tenn. (Clinton Engr. Works, Maintenance only)	2.30
Odessa, Texas	2.92
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Oleum, Cal. Union Oil Co. Maintenance only	3.05

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Wet machines with Auxiliaries for the production of 24" to 48" wide, flat or corrugated sheets in commercial lengths.

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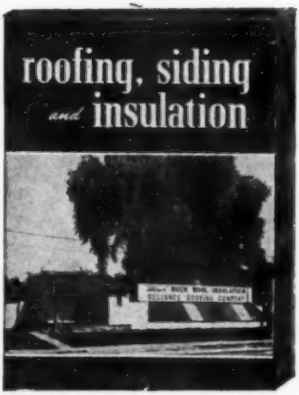

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W.F.—means Welfare Fund

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MINES AND MILL IN GILA COUNTY

JOHNSON'S ASBESTOS COMPANY

Although operating successfully for several months, the fine new plant at Megantic Mine of Johnson's Asbestos Company was only officially opened early in July, with President, A. S. Johnson presiding over the ceremonies. Taking 2½ years to build, the project cost $8,500,000. It was put into commission the first of this year and was on a regular two-shift basis in April. The mill has a rated capacity of 4,000 tons daily and has proved capable of treating upwards of 5,000 tons per day. At present, it is stated, with a five-day week, there is no thought of trying to exceed the 4,000-ton rate.

At the opening ceremonies Mr. Johnson told a small group of company directors, officials and managers of neighboring mines that it was hoped the operation of the new mine would benefit not only the company, but the community, the industry and the country.

With large tonnages handled, operating costs are low. The whole operation requires only 235 men, with the open pit a big saving in manpower over underground operation.

Ore reserves are adequate for many years. Before going ahead with construction plans the company set a target of 24,000,000 tons and this figure had been enlarged since. Grade is relatively low, but the big tonnages permit cheap mining, and of course everything is mechanized as far as possible. Expensive and efficient dust-collecting systems and other innovations have been installed.

NERSICA — NEW NAME

C. N. Nichols, Managing Director of the National Established Roofing, Siding and Insulating Contractors Association, Inc., New York, recently announced that the Association had changed its name to NERSICA, INC.

This action was taken because the old name was too long and for years the Association was generally known by the abbreviated name composed of its initial letters.

The Association is the only national representative of more than 800 contractors in the maintenance, repair and home improvement field, an industry with an annual business volume estimated at more than six billion dollars. Since its formation in 1934, it has cooperated with better business bureaus and law enforcement authorities to raise the level of trade practices and drive our unscrupulous operators such as "bait" advertisers.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		August 1954		
	Par	Low	High	Last
Amer. Br. Shoe (Com)	np	32⅝	34	33
Amer. Br. Shoe (Pfd)	100	99	100	100
Armst. Ck. (Com)	np	74	76½	75⅞
Armst. Ck. (Pfd)	np	96	98½	98½
Armst. Ck. (Conv. Pfd)	np	146½	150¾	149
Asb. Corp. (Com)	np	27⅛	30	29¼
Carey (Com)	10	21¾	24¼	23
Cassiar Asb. Corp.	np	$5.75	$6.00	$5.80
Celotex (Com)	np	21⅞	24½	22⅞
Celotex (Pfd)	20	17½	17⅞	17⅝
Certainteed (Com)	1	18⅝	22¼	20⅛
Dominion Asb. Mines	1	21c	25c	24
Flintkote (Com)	np	32⅝	35⅞	33½
Flintkote (Pfd)	np			
Johns-Manville (Com)	np	74¼	77¾	75½
Natl. Gypsum (Com)	1	32½	37⅛	35
Natl. Gypsum (Pfd)	np	102	103	102
Pabco Products (Com)	np	20	22½	20¾
Pabco Products (Pfd)	100	87½	93	93
Ray-Man (Com)	np	42	44½	44
Ruberoid (Com) (New)	1	37	38¾	37½
Thermoid (Com)	1	7⅛	8¼	7⅝
Thermoid (Pfd)	50	40½	42½	42½
Union Asb. & Rub. (Com)	5	8⅝	10⅞	10
United Asb. (Com)	1	$3.80	$4.00	$3.85
U. S. Gypsum (Com)	20	175	184	175
U. S. Gypsum (Pfd)	100	178½	181	181
U. S. Rubber (Com)	5	35⅝	39¼	36¾
U. S. Rubber (Pfd)	100	150½	155	155

THE RUBEROID CO.

Acquires Ebsary Gypsum Co.

The Ruberoid Co. has announced they recently acquired the assets, goodwill and going business of Ebsary Gypsum Company of Rochester, N. Y. The move will introduce Ruberoid, a leading building materials manufacturer, into the gypsum field.

Ebsary Gypsum was founded in 1909 by Frederick G. Ebsary, who was president at the time of the transaction. The company is widely known in areas east of the Mississippi as a producer of gypsum wallboard, lath, plaster, blocks and gypsum rock. It operates a board and plaster plant at Wheatland, N. Y., about 18 miles southwest of Rochester. Included in the acquisition were gypsum properties contiguous with the plant. These contain enough ore reserves to make the Wheatland plant self-sufficient for many years.

The newly acquired plant will be operated as a Ruberoid division and will continue to serve existing Ebsary customers.

CURRENT RANGE OF PRICE

As of Sept. 10, 1954

Arizona—	Per Ton of 2,000 lbs., f.o.b. Globe, Arizona		
No. 1 Crude (soft)	$1,600.00	to	$1,700.00
No. 2 Crude (soft)	1,000.00	to	1,050.00
No. 3 Crude (soft)	450.00	to	500.00
Filter Fibre (soft)	250.00	to	450.00
No. 1 Crude (semi-soft)	1,200.00	to	1,500.00
No. 2 Crude (semi-soft)	900.00		
No. 3 Crude (semi-soft)	400.00		

Canada—	Per Ton (2000 lbs.) f.o.b. Mine		
Group No. 1 (Crude No. 1)	$1,100.00	to	$1,500.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	500.00	to	1,000.00
Group No. 3 (Spinning Fibre)	300.00	to	525.00
Group No. 4 (Shingle Fibre)	150.00	to	200.00
Group No. 5 (Paper Fibre)	100.00	to	140.00
Group No. 6 (Waste, Stucco or Plaster)			77.00
Group No. 7 (Refuse or Shorts)	35.00	to	70.00

Vermont— Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.			
Group No. 3 (Spinning & Filtering)	$ 321.00	to	$ 348.00
Group No. 4 (Shingle Fibre)	156.00	to	173.00
Group No. 5 (Paper Fibre)	109.00	to	132.00
Group No. 6 (Waste, Stucco or Plaster)			77.00
Group No. 7 (Refuse or Shorts)	37.00	to	68.50

FIBRE-TEX AGENCIES (PTY) LTD.
C. J. PETROW & CO. (PTY) LTD.

Due to increased business, the asbestos department of the Fibre-Tex Agencies (Pty) Ltd., Vancouver House, Johannesburg, will in future be handled by the C. J. Petrow & Co. (Pty) Ltd., Volkskas Building, Johannesburg. Directors of the new company are C. J. Petrow and G. Economides.

The new company will specialize in handling raw asbestos fibres, direct from the producers, such as Amosite, Crocidolite (Cape and Transvaal) and Chrysotile of all types. At present they are serving asbestos consumers in Africa and all the main countries of free Europe, North and South America. Later the company will open an office in the United States and are at present negotiating to have an office in Germany.

Asbestos Exploration — Mine Development

WILLIAM B. MILLAR

Consulting Geologist

Mail Address: Room 1050

161 EAST 42nd ST. NEW YORK 17, N. Y.

JOHN HOLT & COMPANY INC

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Importers of South African Asbestos

Representing

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Supradur is happy to announce their new "UNI-THICK" Fibershakes. Look for these advantages: 1. Uniform thickness for better cutting and notching; 2. Uniform strength minimizes breakage; 3. Velvety smoothness for even greater acceptance. Snowdrift will continue patterned with ridges and valleys. No change in present colors or price. Bundles will be labeled "UNI-THICK." Ask for samples and get more sales. Advise promptly before stock runs out if any customer wants more old style fibershakes.

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ST. LAWRENCE POWER CEREMONIES

On August 10th, Prime Minister of Canada, Mr. L. S. St. Laurent, and the Governor of the State of New York, Mr. Thomas Dewey, were leading principals in ground-breaking ceremonies for the international harnessing for power purposes of the mighty St. Lawrence River.

At Massena, in New York State, and Cornwall, in the Providence of Ontario, the two statesmen led officials of both nations in launching construction of a power development that eventually will turn out 2,200,000 horse power of electricity. The estimated cost of the power development is $600,000,000 and first power is expected to be available in about five years.

The power project is an integral part of a further great international undertaking, the development of the St. Lawrence Seaway, which will open the Great Lakes to ocean going ships by providing a 1,200-mile channel, 27 feet deep from Montreal to the head of the Great Lakes.

Governor Dewey first touched a button at the U.S. ceremony which set off three blasts of dynamite lifting great lumps of earth from the river bank. He also aided the Canadian Prime Minister and Mr. Robert Saunders, Chairman of the Ontario Hydro Electric Power Commission, in turning the first sod on the Canadian side of the river at the site where the international power house will span the river.

CORRECTION

An item listed in our June 1954 issue, under the heading of Imports into U. S. A., Unmanufactured Asbestos — by grades — Crude, Blue, So. Rhodesia 530 tons. We have been advised by the Bureau of Census that this item should be deleted from the tabulation.

TEST

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BOOK LIST

The Asbestos Factbook, 16 pages: Information in comment form on origin, facts, locations, uses of analyses, qualities, 25c per copy.

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages 25c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint). 25c per copy

Tests for Cotton Content. 4 pages (Reprint). Describing several methods of testing asbestos textile for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint), 20c each

Brake Linings of Various Types. By R. T. Halstead, (Reprint) (12 pages) from August, September and October 1949 "ASBESTOS". Price 25c per copy.

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas, $1.00 per set.

Manual of Unit Prices. For figuring pipe covering and blocks 75c per single copy postpaid. Discount in quantities of 6 or more, postage billed.

Order any of the above from "ASBESTOS," 807 Western Saving Fund Bldg., Philadelphia 7, Pa. Payment should accompany order.

CYPRUS

(From W. Parry James, A.C.S.M. Inspector of Mines)

2nd Quarter (ending June 30, 1954)

	April	May	June
Rock Mined	25,368	247,358	299,469
Rock Treated	6,427	60,198	78,381
Fibre Produced	161	1,523	2,295
Fibre Exported	1,553	1,070	2,896

W. E. SINCLAIR, M.I.M.M.
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EASY TO USE . . . Thermalite is available in semi-cylindrical sections for pipe sizes up to 18" diameter. It's light in weight, easy to handle and install, fits snugly over pipes.

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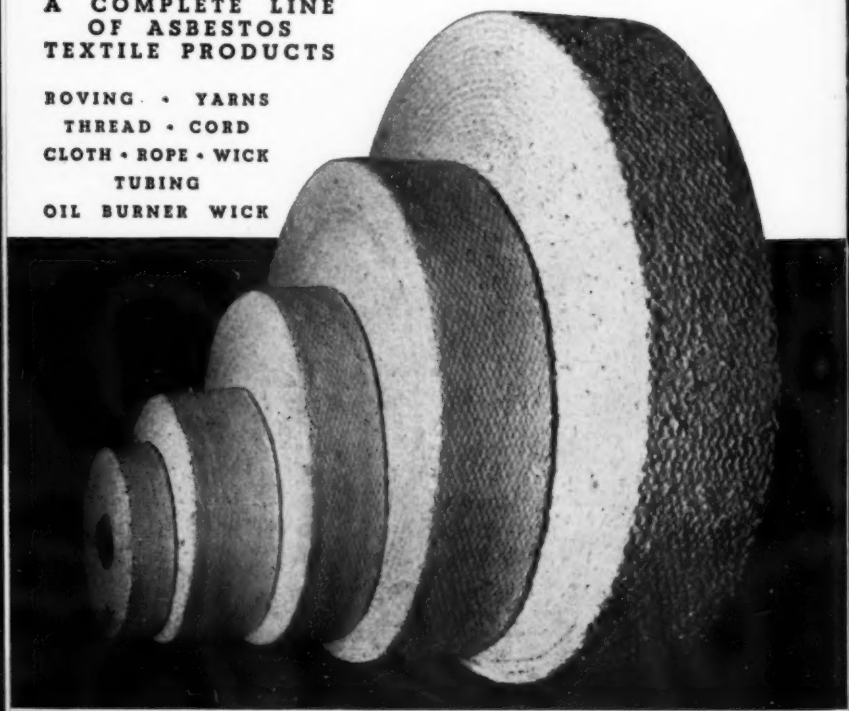

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